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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/646,627	08/22/2003	Jian Xu	758.1254USC1	8466	
7590 05/05/2004			EXAMINER		
Attn: Julie R. Daulton MERCHANT & GOULD P.C.			GREENE, JASON M		
P.O. Box 2903			ART UNIT	PAPER NUMBER	
Minneapolis, MN 55402-0903			1724		
			DATE MAILED: 05/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\mathcal{A}()$.				
•	Application No.	Applicant(s)				
Office Autieu Occurrence	10/646,627	XU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jason M. Greene	1724				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili- earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of third d will apply and will expire SIX (6) MON ate, cause the application to become AE	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	•					
	is action is non-final.					
3) Since this application is in condition for allow	ance except for formal matt	ers, prosecution as to the merits is				
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>19-35</u> is/are pending in the applicating 4a) Of the above claim(s) is/are withdrest 5) Claim(s) <u>24-35</u> is/are allowed. 6) Claim(s) <u>19-22</u> is/are rejected. 7) Claim(s) <u>23</u> is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin 10)☒ The drawing(s) filed on 22 August 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11)☐ The oath or declaration is objected to by the E	e: a)⊠ accepted or b)□ ob e drawing(s) be held in abeyan ction is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8/22/03; 10/6/03.	Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152) 				

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DETAILED ACTION

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Claims

1. With regard to claim 19, the Examiner suggests Applicants replace the word "on" at the end of line 11 with the word "of" to improve the readability of the claim language.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 19-21 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 6,610,126 B2.

Claim 1 of U.S. Patent No. 6,610,126 B2 claims the same method of instant claim 19 except that claim 1 of the '126 patent additionally claims the media

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construction comprising a corrugated sheet secured to a flat sheet rolled into a coiled construction. Therefore, eventhough claim 1 of the '126 patent and instant claim 19 are not identical, claim 1 of the '126 patent anticipates instant claim 19 since the media of claim 1 of the '126 patent reads on the instantly claimed media of claim 19.

Claims 2 and 3 of the '126 patent recite the same additional limitations as instant claims 20 and 21.

4. Claim 22 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,610,126 B2 in view of Tokar et al. '364.

As noted above, claim 1 of the '126 patent claims the media construction comprising a corrugated sheet secured to a flat sheet rolled into a coiled construction.

Claim 1 of the '126 patent does not claim the coiled construction being rolled around a core.

Tokar et al. '364 teaches a similar filter wherein a coiled, fluted filter is wound around a core construction (66) in Fig. 8.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the core construction of Tokar et al. '364 into the method of claim 1 of the '126 patent to provide additional radial support for the coiled filter element.

Allowable Subject Matter

5. Claims 24-35 are allowed.

6. Claim 23 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

With regard to claim 23, the prior art made of record does not teach or fairly suggest the method of claim 22 wherein the step of providing a filter element includes providing a filter element including a frame and the radially directed seal member, the frame securing the radially directed seal member to the media construction, the frame having a skirt and an axial extension, the skirt circumscribing and securing the frame to the media construction, the axial extension projecting axially from the second end of the media construction, the axial extension having an annular portion, the annular portion of the axial extension supporting the radially directed seal member, the core construction having a first end, including a pair of deflectable flanges, the core construction being releasably secured to the frame.

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With regard to claims 24-32, Tokar et al. '364 discloses a filter arrangement (60) comprising a media construction (62) comprising a plurality of flutes (24), a first end, an opposite second end, said plurality of flutes comprising inlet flutes and outlet flutes, said inlet flutes being open at a portion adjacent to said first end and closed at a portion adjacent to said second end, and said outlet flutes being closed at a portion adjacent to said first end and open at a portion adjacent to said second end, a frame (58) secured to said media construction, said frame having an axial extension, said axial extension projecting axially from said second end of said media construction, a first seal member (59) secured to said axial extension in Fig. 8 and col. 5, lines 39-57.

The prior art made of record does not teach or fairly suggest the filter arrangement of claim 24 wherein a second seal member is secured adjacent to the first end of the media construction.

With regard to claims 33-35, Tokar et al. '364 discloses an air cleaner comprising a housing including a body member (54) and a cover (not numbered), said body member defining an interior, a filter element (60) operatively installed within said body member interior, said filter element including a media construction (62) comprising a plurality of flutes (24), a first end, an opposite second end, said plurality of flutes comprising inlet flutes and outlet flutes, said inlet flutes being open at a portion adjacent to said first end and closed at a portion adjacent to said second end, and said outlet flutes being closed at a portion adjacent to said first end and open at a portion adjacent to said second end, a frame (58) secured to said media construction, said frame having

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an axial extension, said axial extension projecting axially from said second end of said media construction, a first seal member (59) secured to said axial extension, said first seal member oriented in a radial direction in Figs. 8 and 11 and col. 5, lines 39-57.

The prior art made of record does not teach or fairly suggest the air cleaner of claim 33 wherein the first seal member forms a radial seal with the housing member, and further including a second seal member secured to the filter element, said second seal member being squeezed between said cover and said body member to form an axial seal therebetween.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Greene whose telephone number is (571) 272-1157. The examiner can normally be reached on Monday - Friday (9:00 AM to 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M. Greene

Examiner

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jmg

May 2, 2004

DUANE SMITH